

WHAT IS CLAIMED IS:

1. A processing additive composition comprising a multimodal,
5 fluoropolymer having a Component A with a melt flow index (MFI_A) and Component B
with a melt flow index (MFI_B), wherein the ratio $MFI_A:MFI_B$ is in the range of from 2:1
to 100:1.

2. A processing additive composition according to claim 1 wherein the
10 fluoropolymer is amorphous.

3. A processing additive composition according to claim 1 wherein the
fluoropolymer is semicrystalline.

4. A processing additive composition according to claim 1 wherein the
15 $MFI_A:MFI_B$ is in the range of from 5:1 to 50:1.

5. A processing additive composition according to claim 1 wherein the weight
ratio of component A to component B (A:B) is in the range of from 1:99 to 99:1.

6. A processing additive composition according to claim 1 wherein MFI_A is
20 greater than 50 and MFI_B is 50 or less.

7. A processing additive composition according to claim 1 wherein the
25 fluoropolymer comprises interpolymerized units derived from at least one monomer of the
formula



wherein each R may be the same or different and is selected from the group of H, F, Cl,
alkyl of from 1 to 8 carbon atoms, cyclic alkyl of from 1 to 8 carbon atoms, aryl of from 1
30 to 10 carbon atoms, and perfluoroalkyl of from 1 to 8 carbon atoms.

8. A processing additive composition according to claim 7 wherein the fluoropolymer comprises interpolymers derived from at least one monomer of formula I and at least one monomer having the formula



wherein each R^1 may be the same or different and is selected from H, Cl or an alkyl group of from 1 to 8 carbon atoms, a cyclic alkyl group of from 1 to 10 carbon atoms, or an aryl group of from 1 to 8 carbon atoms.

9. A processing additive composition according to claim 8 wherein the fluoropolymer is derived solely from interpolymers of vinylidene fluoride and hexafluoropropylene.

10. A processing additive composition according to claim 9 wherein the fluoropolymer comprises interpolymers derived solely from a monomer composition of 99 to 67 weight percent vinylidene fluoride and 1 to 33 weight percent hexafluoropropylene.

11. A processing additive composition according to claim 8 wherein the fluoropolymer comprises interpolymers derived from tetrafluoroethylene and more than 5 weight percent of copolymerizable monomer other than tetrafluoroethylene.

12. A processing additive composition according to claim 7 wherein the fluoropolymer comprises interpolymers derived from tetrafluoroethylene, hexafluoropropylene and a third comonomer of formula I other than tetrafluoroethylene or hexafluoropropylene.

13. A processing additive composition according to claim 12 wherein the third comonomer is vinylidene fluoride.

14. A processing additive composition according to claim 8 wherein the fluoropolymer comprises interpolymers derived from 45 to 70 weight %

tetrafluoroethylene, from 10 to 20 weight % hexafluoropropylene and from 10 to 20 weight percent of a formula II monomer.

5 15. A processing additive composition according to claim 14 wherein the formula II monomer is propylene.

10 16. A processing additive composition according to claim 8 wherein the fluoropolymer comprises interpolymerized units derived from 50 to 95 weight % tetrafluoroethylene and from 50 to 5 weight % of a formula II monomer.

10 17. A melt processable polymer composition comprising a major amount of a melt processable thermoplastic host polymer and a minor amount of the processing additive composition according to claim 1.

15 18. A melt processable composition according to claim 17 wherein the host polymer comprises from about 50 to 99.995 weight % of the composition.

15 19. A melt processable composition according to claim 17 wherein the host polymer is a polyolefin.

20 20. A method for reducing melt defects in a melt processable thermoplastic host polymer which comprises the steps of forming a melt processable polymer composition comprising the host polymer and an effective amount of the processing additive composition according to claim 1; mixing the processing additive composition
25 and the host polymer for a time sufficient to blend them together, and melt processing the polymer composition.

30 21. A method according to claim 20 wherein the melt processable polymer composition comprises from 50 to 98 weight percent of the host polymer and from 50 to 2 weight percent of the processing additive.

22. A method according to claim 21 wherein the melt processable polymer composition comprises from 98 to 99.995 weight percent of the host polymer and from 2 to 0.005 weight percent of the polymer processing additive.

5 23. A method according to claim 20 wherein the host polymer comprises a polyolefin.

24. A processing additive composition according to claim 1 wherein MFI_A is greater than 100 and MFI_B is 100 or less.

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